ScanPLACE™
"Offline Programing, Measurement & Inspection"

Innovative Alternatives

ScanPLACE provides a sophisticated and user-friendly alternative to complex CAM software packages and inaccurate and time-consuming manual inspection and programming methods that cost assembly houses productivity, time and money.

Designed to increase PCB assembly productivity, ScanPLACE is a fully integrated, off-line programming, inspection and measurement workstation.

Programming

Using a calibrated, high-resolution, color imaging system, ScanPLACE produces assembly programs and process documentation for Surface Mount, Insertion, Test, Inspection and Dispensing machines.

Import / Scan

• CAD, Components, Boards, Film, Stencils, BOM and Gerber Data.

Output

• Component Pitch, Rotation and body dimensions
• X/Y Component Centroid
• Reference Designator & Package ID
• Part, Feeder/Magazine Number
• User Defined Data
• Gerber Data
• Process Documentation
• Multiple machine specific CAD files (IMC, SMT, TEST, AOI) and Stencil file generation during one programming session.
• Component Information for Vision Databases

In-bound Board & Stencil Inspection

ScanPLACE increases production efficiency by using off-line comparison of actual PCBs and Stencils against Gerber files and/or a "golden board." Pre-production check verifies revisions against each other before the first production run. Eliminate surprises.

Build Component Libraries

Scan a component to automatically calculate and register the following information:
• Lead Pitch, Lead Size, Body Size
• Lead Groups, Pick Up Location, etc.
• Specific Vision Data outputs for Fuji SMD3 and Siemens SIPLACE
• Generic Vision ASCII files for other suppliers
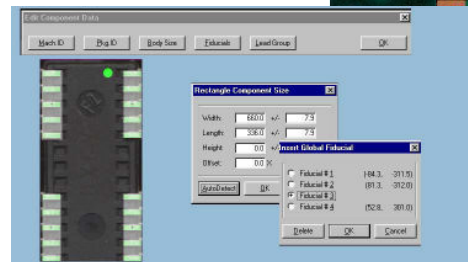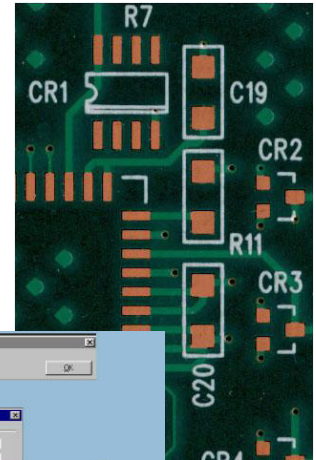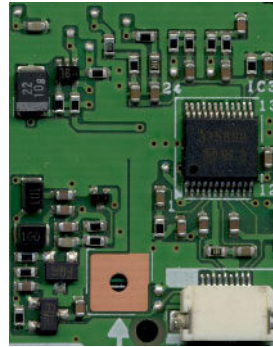
Offline Inspection & Measurement

ScanPLACE uses a combination of editing functions to ensure that all information has been inserted correctly. This off-line verification significantly reduces first article setup time. Overlay CAD and/or Gerber data and compare:
• Loaded Boards
• Bare Boards
• Stencils
• Components
• Wet Glue / Solder Paste/ Epoxy

First Article Inspection

ScanPLACE increases productivity with the ability to scan the first article and compare it to the Centroid data.

Why use ScanPLACE?

Flexible
Use one workstation to produce assembly files for multi-vendor Surface Mount, Insertion, Test, Inspection and Dispensing machines

Powerful
Use one workstation to inspect stencils, screens and bare or loaded boards

Fast
Decrease programming time from days to hours

Easy
Windows-based system

SYSTEM FEATURES

Input Data

- PC Boards- Bare/Loaded
- Components
- Stencils/Screens
- Gerber
- ASCII CAD
- BOM
- Films
- Drawings
- Paper

Output Data

- Stencil files
- Drill files
- BMP, TIFF images
- DXF

Available Machine Output Formats

Amistar	Fuji	Sanyo
Asymtek	Juki	Siemens
CAM/A LOT	KME	Sony
Contact Systems	MVT	TDK
CR Technology	Dynapert	Mydata
Creative Automation	Universal	Tenyru
Quad	Europlacer	Royonics
Panasonic/Panasert	VI Technology	Four-PI (HP)
Yamaha	Zevatech	
Philips / Assembléon		

Other Output Formats

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FabMaster	GraphiCode	Unicam
Gerber 274x	LPKF	Unicraft
GenCAD	Mitron	

Automatic Functions

- Surface Mount Pad Recognition
- Insertion Hole Recognition
- Automatic Text Function
- Auto Load Gerber

Placement

- Autofind Function Locates Components and Related Centroids
- Global / Circuit / Local Fiducials
- Automatic Generation of Adhesive Dot Centroids
- Component Database
- Editor Accuracy: 0.0001" (0.00254mm)

Check / Verification

- "Jump-To" Component or Reference Designator
- Programming Environment Editor
- Assembly File Editor
- Gerber Editor
- Scan and Compare Multiple Board Revisions
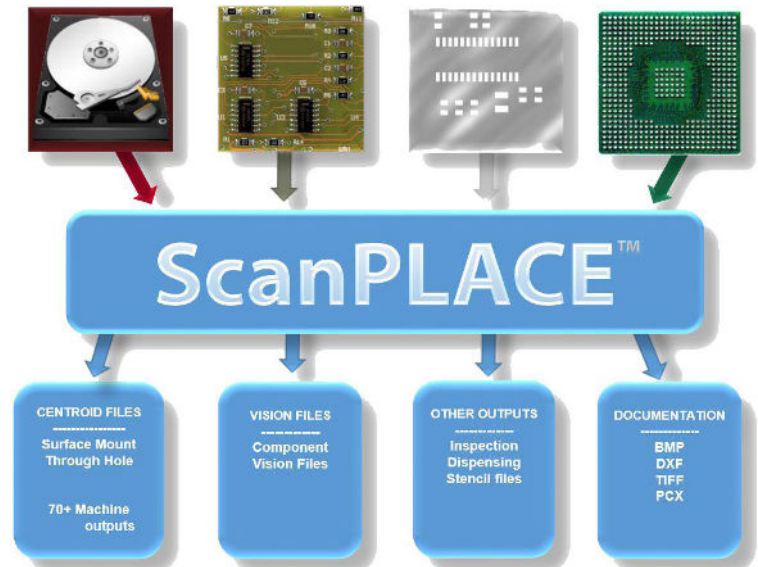
Technical specifications

Scanner

- High-Resolution Color Flatbed Scanner, Size A3: (400/1000/1600/2000/2400/3200/4000/4800 dpi)
- Calibrated Accuracy: ± 0.0010" (± 0.0254mm)
- A3-Scanning Area: 11.7" x 16.5" (297mm x 419mm)
- Unlimited Work Area

Computer*

- Multi Core Processor - 3 GHz
- 1 TB 7200 RPM HDD, 16 GB RAM (Additional 256GB SSD recommended for higher performance)
- FHD (1920x1080) Flat Panel Monitor
- Ethernet Connection
- Windows 10 - 64-Bit
- 2 available USB2 or USB3 ports

Additional System Components

- Precision Glass Calibration Grid (NIST Certified)
- Scanner Interface Cable
- Software Protection Key
- Scanning Accessory Package
- Custom Desk (Optional)
- Custom Transmissive Lighting Package (Optional)
- Extra Seat - Software only (Optional)
- Service and Support Contracts (Optional)